

15th International Symposium on Trichoptera

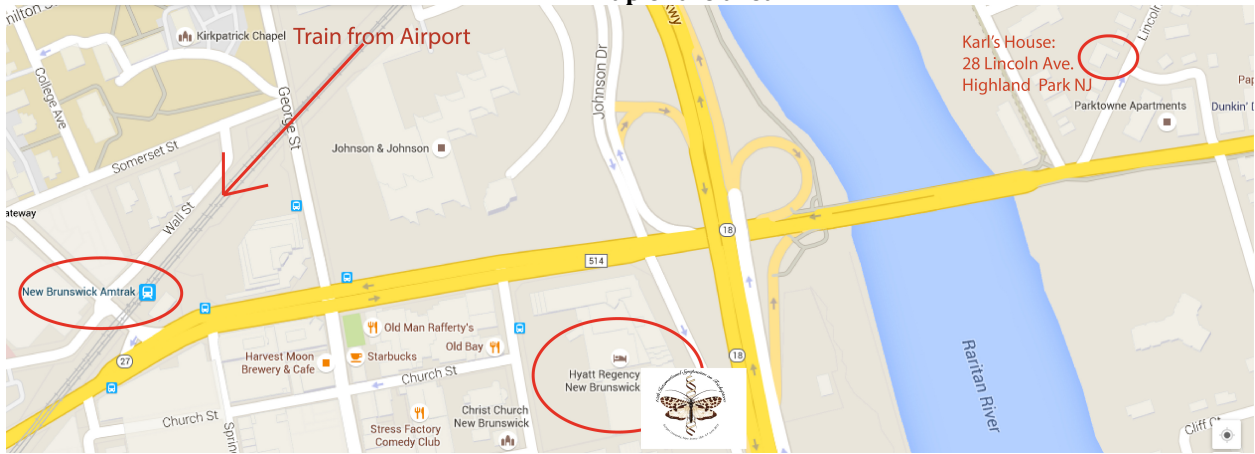


June 4-8 2015
Rutgers University
New Brunswick, New Jersey, USA
Dr. Karl M. Kjer, Convener

Agenda, Maps, Schedule, and Abstracts

Karl Kjer

Map of the area



Walking

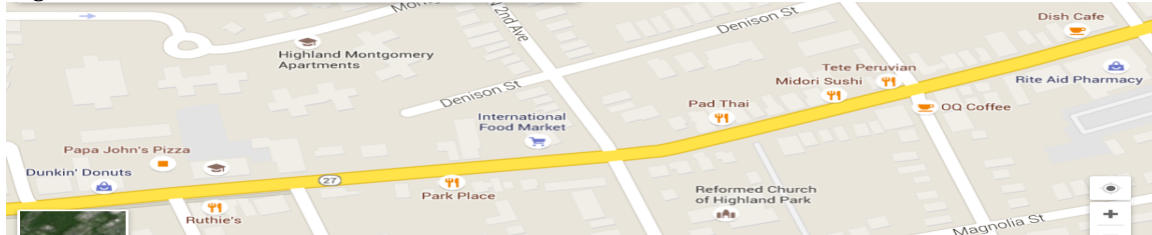
There are two main roads for walking; Highway 27, running from the train station, across the river into Highland Park, and George street, running through downtown New Brunswick. It is safe to walk on these streets at any time. There are places in New Brunswick where it would be unwise to walk alone after midnight, but you should feel safe here. Highway 27 is the main road through Highland Park, and there are many places to shop and eat there, as well as a grocery store on 27 and 4th Street. There is a large park nice for walking in Highland Park, along the river that you can access by crossing the bridge, and turning left on River road.

In the upper left corner of the map above, you see “Kirkpatrick chapel”. This area is good for walking. It is the oldest part of Rutgers, which was one of the earliest colonial universities in the U.S, founded in 1766. Rutgers is divided into three main campuses. The one closest to the Hyatt is called “College Avenue”, and includes the old part of the university (shown on the map), and the Zimmerly Art Museum on George Street and Hamilton (named for Alexander Hamilton, who set up artillery near there in support of Washington’s retreat from the British during the revolutionary war)

Dining

If you walk along either George Street (closer) in New Brunswick, or Hwy 27 in Highland Park, you will find many good restaurants. **Harvest Moon** is a nice brew pub on George Street with good food, very close to the Hyatt. The deserts at **Old Man Rafferty's** are good. Both are shown on the map above. There is a Thai restaurant on 27 and 2nd in Highland Park (**Pad Thai**), and a very good sushi place further down the road (**Midori Sushi**), and a good Peruvian restaurant on 27 and 3rd (**Tete**). The **Dish Café** serves a nice breakfast.

Highland Park



If you are on a budget, we suggest coming to the socials at Karl's house. Karl and Sheri are not cooking, but will have some things available for you to put on the grill or stove, along with buns, condiments, and beverages. There will be a kitty for contributions (Karl and Sheri bought the food). Use the grocery store on 4th and 27 in Highland Park. Use Karl's home as you would your own. (Just cook for yourself, and clean up after).

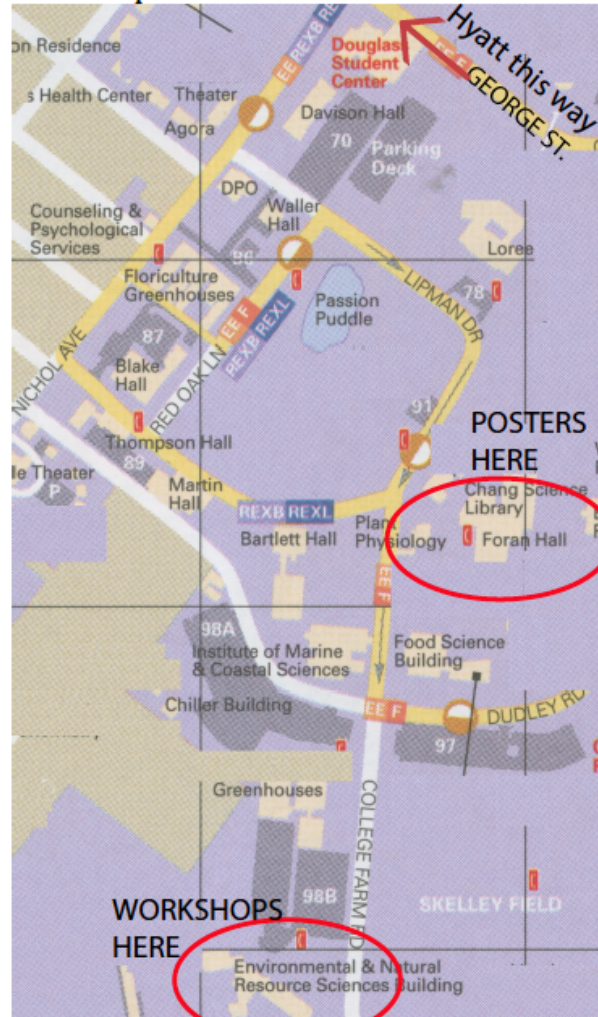
Field Trip

Saturday, buses arrive for an early departure to Stokes state forest, in front of the Hyatt. Please have breakfast before we leave. We will be back for dinner. Simple bag lunches will be provided, including a cheese sandwich, a soda, and some chips. Feel free to supplement. If you prefer to spend the day in New York City, see Karl for train tickets and advice.

Map of Hyatt to Cook Campus



Cook Campus



Sunday, both the poster session and the workshops will be held on the Cook Campus, shown at the bottom of the map on the left. This will be a little tricky. There is a free Campus bus that connects the College Ave and Cook campuses. The bus stop is on George Street (marked 527 on the left map), near Paterson. The buses are on a summer schedule, and only come once every half hour. So if you miss it, you need to walk along 527, or arrive late. The first bus leaves around 8:30 A.M. and arrives at the Food Science Building stop at 8:45. Check the website <http://www.nextbus.com/predictor/stopSelector.jsp?a=rutgers> for real time schedule (or Google "Rutgers nextbus.com") The map on the right shows the buildings we need to find on the Cook Campus. The posters will be set up in Foran Hall (circled). Bring your poster with you, and set it up as you arrive. Please bring pins, but Karl and his helpers will have some if you need them. Workshops will be held at the Department of Ecol. Evol. & Nat. Res. (also known as the Environmental & Natural Resource Sciences Building: shown on both maps).

Program

Wednesday, 3 June 2015

Opening Activities

3:00 PM - 5:00 PM

Registration

Conference Room, Hyatt Regency

6:00 PM - 10:00 PM

Dinner on own, followed by

Open House Reception, Karl Kjer & Sheri Scheldorf

28 Lincoln Ave, Highland Park, NJ 08904

Thursday, 4 June 2015

Introductory Activities

8:00 AM - 9:00 AM

Registration

Conference Room, Hyatt Regency

9:00 AM - 9:05 AM

Welcome

Dr. Karl M. Kjer, Convener

9:05 AM - 9:10 AM

Welcome

Dr. Bob Goodman, Dean, Rutgers School of Environmental Biology

9:10 AM - 9:20 AM

Opening of the Symposium & General Information

Dr. Karl M. Kjer, Convener

Ecology, Session 1

9:20 AM - 9:35 AM

Moderator: Brian Smith

Ecological characterization of an unknown fauna using DNA taxonomy

- An example with Himalayan Hydropsychidae (Insecta: Trichoptera)

Felicitas Hoppeler, Ram Devi Tachamo Shah, Deep Narayan Shah, Sonja C.

Jähnig, Jonathan D. Tonkin, Subodh Sharma, Steffen U. Pauls.

9:35 AM - 9:50 AM

Oviposition, rocks!

Brian J. Smith, Richard G. Storey, David J. Reid

9:50 AM - 10:05 AM

Oviposition dynamics and larvae development of *Chaetopteryx villosa* (Trichoptera: Limnephilidae)

Katarzyna Kwiatkowska, Janusz Majecki

10:05 AM - 10:20 AM

Impacts of sedimentation from oil and gas development on caddisfly populations in two adjacent watersheds of the Allegheny National Forest, Pennsylvania, USA

Steven C. Harris, K.A. Fritz, N. Renaudin, and H. Edenborn

10:20 AM - 11:00 AM

BREAK

Ecology, Session 2

11:00 AM - 11:15 AM

Moderator: Katarzyna Kwiatkowska

Case reconstruction behavior and mortality of *Pycnopsyche guttifer* (Trichoptera: Limnephilidae) at different temperatures with and without aeration

Lindsey Lewis, Angelica Pytel

11:15 AM - 11:30 AM

Population dynamics and seasonal occurrence of adult *Amphipsyche meridiana* Ulmer 1902 (Trichoptera: Hydropsychidae) in an irrigation pond outlet

Taeng On Prommi

11:30 AM - 11:45 AM

Monthly diversity and abundance of caddisflies from upstream and downstream of the Mae Ngat Somboonchol Dam, Chiang Mai Province, Thailand

Wongphan Promwong and Decha Thapanya

11:45 AM - 12:00 PM

Trichoptera community and thermal gradients in alpine streams in Glacier National Park, Montana: implications for climate change impacts on aquatic biodiversity

12:00 PM - 12:05 PM	<i>J. Joseph Giersch, Clint C. Muhlfeld, Leslie A. Jones</i> [short talk] Habitat preferences and ecological notes of the subfamily Drusinae in Kosovo <i>Halil Ibrahim, Mladen Kučinić, Naman Sinani, Arben Gashi, Labinot Qollaku</i>
12:05 PM - 1:30 PM	LUNCH
Taxonomy	Moderator: Robin Thomson
1:30 PM - 1:45 PM	A new species of the genus <i>Lepidostoma</i> Rambur (Trichoptera: Lepidostomatidae) from the Indian Himalaya <i>Sajad Hussain Parey</i>
1:45 PM - 2:00 PM	The genus <i>Atanatolica</i> (Trichoptera: Leptoceridae) from the Neotropics <i>Luis Ernesto Rázuri Gonzales, Ralph Holzenthal</i>
2:00 PM - 2:15 PM	Singleton-based species and rarity <i>Alice Wells, Kjell Arne Johanson, Peter Dostine</i>
2:15 PM - 2:30 PM	Systematics of <i>Cernotina</i> Ross and <i>Cynellus</i> Banks (Trichoptera: Polycentropodidae) <i>Lucas M. Camargos, Ralph W. Holzenthal</i>
2:30 PM - 3:15 PM	BREAK
Phylogeny	Moderator: Desiree Robertson
3:15 PM - 3:30 PM	A short synopsis on the phylogeny of European Drusinae (Limnephilidae) <i>Simon Vitecek, Wolfram Graf, Ana Previšić, Mladen Kučinić, Lujza Keresztes, Miklós Bálint, Steffen Pauls, Johann Waringer</i>
3:30 PM - 3:45 PM	Molecular phylogeographic analyses of <i>Anisocentropus</i> caddisflies <i>Masaki Takenaka, Saki Shibata, Tomiko Ito, Koji Tojo</i>
3:45 PM - 4:00 PM	Discovery and population genetic patterns of <i>Rhyacophila lobifera</i> in an urbanized southeast Michigan watershed <i>Abigail Fusaro, Bruce McCulloch, Sally Petrella, Velon Willis</i>
4:00 PM - 4:15 PM	The postlarval development of the mandibular musculature in Trichoptera revealed by μCT data <i>Martin Kubiak, Anika Pinkernell, Lena Loosmann, Frank Friedrich</i>
4:15 PM - 4:30 PM	GROUP PHOTO
Evening Activities	
6:00 PM - 10:00 PM	Dinner on own, followed by Open House Reception, Karl Kjer & Sheri Sheldorf 28 Lincoln Ave, Highland Park, NJ 08904
8:00 PM - 12:00 AM	OPTIONAL - Light trapping for caddisflies (meet at Karl's house)

Friday, 5 June 2015

Registration

8:00-12:00

Open during entire morning

Plenary Session 1

8:20 AM - 8:40 AM

Moderators: *Ralph Holzenthal, Karl Kjer*

History of Neotropical Trichopterozoology

Oliver S. Flint, Jr.

8:40 AM - 9:00 AM

Current status and recent advances in Trichoptera diversity and systematics: a review of the literature from 2000

Ralph W. Holzenthal

9:00 AM - 9:20 AM

Integrative Trichoptera phylogenetics in today's "big data" environment

Karl M. Kjer

9:20 AM - 9:40 AM

BREAK

Plenary Session 2

9:40 AM - 10:00 AM

Moderators: *Ralph Holzenthal, Karl Kjer*

Molecular phylogenetics offers insight on the ecological diversification of caddisflies

Steffen Pauls, Miklos Balint, Wolfram Graf, Paul B. Frandsen, Alan R. Lemmon, Ildoki Szivak, Simon Vitecek, Johann Waringer, Karl Kjer

10:20 AM - 10:40 AM

Molecular phylogeography of *Palaeagapetus* caddisflies

Rirei Araiya, Tomiko Ito, Koji Tojo

10:40 AM - 11:00 AM

The larval head anatomy of *Rhyacophila fasciata* Hagen 1859 and its implications on mouthpart homology and the phylogeny of Trichoptera

Frank Friedrich, Johannes Schulz, Martin Kubiak

11:00 AM - 11:20 AM

BREAK

Plenary Session 3

11:20 AM - 11:40 AM

Moderators: *Ralph Holzenthal, Karl Kjer*

The New Caledonian Trichoptera diversity - present status of knowledge

Kjell Arne Johanson, Alice Wells

11:40 AM - 12:00 PM

Cryptic species and phylogeography of South American caddisflies

Dani Takiya

12:00 PM - 12:20 PM

The Trichoptera Literature Database and Trichoptera Library Project: advancing online collaborative resources

Patina Mendez

12:20 PM - 1:45 PM **LUNCH**

Faunistics

1:45 PM - 2:00 PM

Moderator: *Allan Santos*

Evaluation of the conservation requirements of Trichoptera from the Tsitsikamma mountain streams in South Africa

Ferdinand C de Moor, Terence A Bellingan

2:00 PM - 2:15 PM

Biodiversity of Trichoptera from islands in the Thai Gulf and the Andaman Sea, Thailand

Pongsak Laudee

2:15 PM - 2:30 PM

Trichoptera of Ecuador

Blanca Ríos-Touma, Ralph Holzenthal, Jolanda Huisman

2:30 PM - 2:45 PM

Addenda to fauna of caddis flies (Trichoptera, Insecta) in Kazakhstan

Dina Smirnova, Olga Sklyarova, Julia Epova, Lyudmila Kushnikova, Anna Evseeva, Serik Timirhanov

2:45 PM -3:00 PM	Pre-European Settlement Distributions of Trichoptera Across Previously Glaciated Regions <i>Jason L. Robinson</i>
3:00 PM -3:30 PM	BREAK
3:30 PM -4:00 PM 4:00 P.M.-4:05 P.M.	Discussion - Next venue, symposium proceedings Remembering Glenn Wiggins, Andy Nimmo, Niels Kristensen, and others - If you knew them well, please share your personal thoughts about our friends who have past since our last meeting.
4:05 PM -5:00 PM	Collaborative Mixer - Meet with somebody you are not currently working with, and discuss ways you could advance your science with them. Or just visit, but it must be with somebody new. Get up and move every 15 minutes
Evening Activities 6:00 PM - 10:00 PM	Dinner on own, followed by Open House Reception, Karl Kjer & Sheri Scheldorf 28 Lincoln Ave, Highland Park, NJ 08904
8:00 PM - 12:00 AM	OPTIONAL - Light trapping for caddisflies (meet at Karl's house)
Saturday, June 6 2015	
All Day Activity 7:30 AM - 5:30 PM	Field trip - Stokes Forest, picnic lunch. Dinner on own
Sunday, June 7 2015	
Poster Session and Workshops 8:30 AM - 8:45 AM 8:45 AM - 11:00 AM 11:15 AM -1:15 PM	Bus to Rutgers Cook Campus, Foran Hall (meet at Hyatt) Poster Session - Foran Hall WORKSHOPS - Session 1 (select one) Digital Illustration: Room 123 - Ralph Holzenthal Barcoding: Room 145 - Karl Kjer Phylogenomics: Room 223 - Paul Frandsen DELTA - Descriptive Language for Taxonomy: Room 149 - Desi Robertson Microphotography and automontage: Room 166 - Joe Giersch
1:15 PM - 2:30 PM	LUNCH
2:30 PM - 4:30 PM	WORKSHOPS - Session 2 (repeat select a different one) Digital Illustration: Room 123 Barcoding: Room 145 Microphotography and automontage: Room 166 Trichoptera Literature Database "scan-a-thon": Room 149 - Patina Mendez
Evening Activity 6:00 PM - 8:00 PM	Group Dinner at Harvest Moon

Monday, June 8 2015

7:00 AM - 8:30 AM

Informal breakfast at the Hyatt, farewell

10:00 AM - 11:00 AM

Paul Frandsen Thesis Defense: "Large datasets and Trichoptera phylogenetics: DNA barcodes, partitioned phylogenetic models, and the evolution of Phryganeidae." Institute of Marine and Coastal Sciences Building (near Foran Hall on Cook campus: See map)

Partners Program

Carol Flint and Sheri Scheldorf will be leading activities for accompanying spouses and others not enrolled in the symposium. They will meet in the lobby from 8-8:30, and provide advice and guidance for non-symposium activities. Possible activities include a day in New York City (by train), and a day around New Brunswick, including a tour of the Zimmerly Art Museum. We have plenty of room on the busses for spouses for the Saturday field trip.

Acknowledgements

Sincere thanks to **Oliver Flint Jr., Steven and Patricia Harris, Ralph Holzenthal, John Morse, Vince and Cheryl Resh, and Dave Ruiter** for their generous donations to the scholarship fund. Their support made it possible for 10 of our colleagues to attend the meeting. We also thank **Robert Goodman** and the Rutgers School of Environmental Biology, **Henry John-Alder** and the Department of Ecology, Evolution and Natural Resources, and **George Hamilton**, Department of Entomology for their generous support. Thanks also to **Julianne McGlaughlin, Jade Shevchenko, and Achmad Bakhatiar**, our student helpers.